

New §371 Application  
Based on PCT/EP00/08129  
Filed February 20, 2002  
Markl, et al.

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haemocyanin, a haemocyanin domain or a fragment thereof with the immunological properties of at least one domain of haemocyanin, and comprising at least one intron sequence. The invention further relates to constructs which comprise the nucleic acid molecule and, where appropriate, a promoter suitable for expression control. In a preferred embodiment, the construct further comprises a nucleic acid sequence which codes for an antigen. The invention moreover relates to host cells which contain these nucleic acid molecules and/or constructs. The invention further relates to recombinant expression of the nucleic acid molecules and/or constructs in the host cells. The invention further relates to haemocyanin, a haemocyanin domain, a fragment with the immunological properties of at least one domain of haemocyanin and haemocyanin fusion proteins, which are coded by the nucleic acid molecules and/or constructs. The invention further relates to pharmaceutical compositions which comprise the nucleic acid molecules and/or haemocyanin, a haemocyanin domain, a fragment thereof or a fusion protein. The invention further relates to liposomes which comprise the nucleic acid molecules and/or haemocyanin, a haemocyanin domain, a fragment thereof or a fusion protein. The invention further relates to antibodies which are obtainable by immunization of a test animal with haemocyanin, a haemocyanin domain, a fragment thereof or a

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fusion protein, and the use thereof in screening methods for the identification of tumours.

#### IN THE CLAIMS

Please cancel Claims 11 and 36 and substitute new Claims 49 and 50.

49. Construct comprising a nucleic acid molecule comprising a nucleic acid sequence which codes for a haemocyanin, a haemocyanin domain or a functional fragment thereof with the immunological properties of at least one domain of a haemocyanin, and comprising at least one intron sequence, the nucleic acid sequence being selected from:

- (a) nucleic acid sequences which are selected from the group consisting of the DNA sequences shown below or the corresponding RNA sequences or which contain these:

SEQ ID NO:1 (HtH1 domain a + signal peptide),  
SEQ ID NO:2 (HtH1 domain b),  
SEQ ID NO:3 (HtH1 domain c),  
SEQ ID NO:4 (HtH1 domain d),  
SEQ ID NO:5 (HtH1 domain e),  
SEQ ID NO:6 (HtH1 domain f),  
SEQ ID NO:7 (HtH1 domain g),  
SEQ ID NO: 8 (HtH1 domain h),  
SEQ ID NO:9 (partial HtH2 domain b),